PPL-2

IIT2015065

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Chapter 1

ppl-assignment-soumik-mufc

ppl-assignment-soumik-mufc created by GitHub Classroom ROLL No-IIT2015065 Section A

Bugs in making couples(i.e paring of couples) have been removed.

Classes include:Miser, Generous, Geeky, Normal, Choosy, Desperate, Helper, Helper_couple, Gift, Couple.

Class Diagram, Documentation to be added when available. :p

Note: Requires c++11 for compilation and execution.

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

couple 9
gift 9

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

couple::Couple 11
gift::Gift 15
Helper_couple 17

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

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Chapter 5

Namespace Documentation

5.1 couple Namespace Reference

Classes

- class Couple

5.2 gift Namespace Reference

Classes

- class Gift

Chapter 6

Class Documentation

6.1 couple::Couple Class Reference

`#include <Couple.h>`

Public Member Functions

- Couple (std::string, std::string, int, int, int, int, int, int, int, int)
- std::string get_boy_name () const
- std::string get_girl_name () const
- double get_happiness () const
- int get_compatibility () const
- int get_boy_type () const
- int get_girl_type () const
- int get_boy_budget () const
- int get_girl_budget () const
- int get_boy_attract () const
- int get_girl_attract () const
- int get_boy_intel () const
- int get_girl_intel () const
- double get_boy_happy () const
- double get_girl_happy () const
- void set_boy_happy (double)
- void set_girl_happy (double)
- void set_happiness ()
- void set_compatibility ()

6.1.1 Detailed Description

Definition at line 7 of file Couple.h.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 Couple()

```
couple::Couple::Couple (
            std::string s1,
            std::string s2,
            int v1,
            int v2,
            int v3,
            int v4,
            int v5,
            int v6,
            int v7,
            int v8 )
```

Definition at line 4 of file Couple.cpp.

6.1.3 Member Function Documentation

6.1.3.1 get_boy_attract()

```
int couple::Couple::get_boy_attract ( ) const
```

Definition at line 49 of file Couple.cpp.

6.1.3.2 get_boy_budget()

```
int couple::Couple::get_boy_budget ( ) const
```

Definition at line 41 of file Couple.cpp.

6.1.3.3 get_boy_happy()

```
double couple::Couple::get_boy_happy ( ) const
```

Definition at line 65 of file Couple.cpp.

6.1.3.4 get_boy_intel()

```
int couple::Couple::get_boy_intel ( ) const
```

Definition at line 57 of file Couple.cpp.

6.1.3.5 get_boy_name()

```
std::string couple::Couple::get_boy_name ( ) const
```

Definition at line 17 of file Couple.cpp.

6.1.3.6 get_boy_type()

```
int couple::Couple::get_boy_type ( ) const
```

Definition at line 33 of file Couple.cpp.

6.1.3.7 get_compatibility()

```
int couple::Couple::get_compatibility ( ) const
```

Definition at line 29 of file Couple.cpp.

6.1.3.8 get_girl_attract()

```
int couple::Couple::get_girl_attract ( ) const
```

Definition at line 53 of file Couple.cpp.

6.1.3.9 get_girl_budget()

```
int couple::Couple::get_girl_budget ( ) const
```

Definition at line 45 of file Couple.cpp.

6.1.3.10 get_girl_happy()

```
double couple::Couple::get_girl_happy ( ) const
```

Definition at line 69 of file Couple.cpp.

6.1.3.11 get_girl_intel()

```
int couple::Couple::get_girl_intel ( ) const
```

Definition at line 61 of file Couple.cpp.

6.1.3.12 get_girl_name()

```
std::string couple::Couple::get_girl_name ( ) const
```

Definition at line 21 of file Couple.cpp.

6.1.3.13 get_girl_type()

```
int couple::Couple::get_girl_type ( ) const
```

Definition at line 37 of file Couple.cpp.

6.1.3.14 get_happiness()

```
double couple::Couple::get_happiness ( ) const
```

Definition at line 25 of file Couple.cpp.

6.1.3.15 set_boy_happy()

```
void couple::Couple::set_boy_happy (
             double a )
```

Definition at line 85 of file Couple.cpp.

6.1.3.16 set_compatibility()

```
void couple::Couple::set_compatibility ( )
```

Definition at line 77 of file Couple.cpp.

6.1.3.17 set_girl_happy()

```
void couple::Couple::set_girl_happy (
            double a )
```

Definition at line 81 of file Couple.cpp.

6.1.3.18 set_happiness()

```
void couple::Couple::set_happiness ( )
```

Definition at line 73 of file Couple.cpp.

The documentation for this class was generated from the following files:

- /Volumes/Untitled/PPL PROJECT/que_2/Couple.h
- /Volumes/Untitled/PPL PROJECT/que_2/Couple.cpp

6.2 gift::Gift Class Reference

```
#include <Gift.h>
```

Public Member Functions

- Gift (std::string, int, int, int, int, int)
- std::string get_name () const
- int get_price () const
- int get_value () const
- int get_type () const
- int get_data1 () const
- int get_data2 () const
- bool get_status () const
- void set_status (bool)

6.2.1 Detailed Description

Definition at line 9 of file Gift.h.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 Gift()

```
gift::Gift::Gift (
            std::string name,
            int price,
            int value,
            int type,
            int data1,
            int data2 )
```

Definition at line 4 of file Gift.cpp.

6.2.3 Member Function Documentation

6.2.3.1 get_data1()

```
int gift::Gift::get_data1 ( ) const
```

Definition at line 31 of file Gift.cpp.

6.2.3.2 get_data2()

```
int gift::Gift::get_data2 ( ) const
```

Definition at line 35 of file Gift.cpp.

6.2.3.3 get_name()

```
std::string gift::Gift::get_name ( ) const
```

Definition at line 15 of file Gift.cpp.

6.2.3.4 get_price()

```
int gift::Gift::get_price ( ) const
```

Definition at line 19 of file Gift.cpp.

6.2.3.5 get_status()

```
bool gift::Gift::get_status ( ) const
```

Definition at line 39 of file Gift.cpp.

6.2.3.6 get_type()

```
int gift::Gift::get_type ( ) const
```

Definition at line 27 of file Gift.cpp.

6.2.3.7 get_value()

```
int gift::Gift::get_value ( ) const
```

Definition at line 23 of file Gift.cpp.

6.2.3.8 set_status()

```
void gift::Gift::set_status (
            bool status )
```

Definition at line 43 of file Gift.cpp.

The documentation for this class was generated from the following files:

- /Volumes/Untitled/PPL PROJECT/que_2/Gift.h
- /Volumes/Untitled/PPL PROJECT/que_2/Gift.cpp

6.3 Helper_couple Class Reference

```
#include <Helper_couple.h>
```

Friends

- void give_gifts (std::vector< couple::Couple > &c)

6.3.1 Detailed Description

Definition at line 7 of file Helper_couple.h.

6.3.2 Friends And Related Function Documentation

6.3.2.1 give_gifts

```
void give_gifts (
            std::vector< couple::Couple > & c )  [friend]
```

Definition at line 11 of file Helper_couple.cpp.

The documentation for this class was generated from the following file:

- /Volumes/Untitled/PPL PROJECT/que_2/Helper_couple.h

Chapter 7

File Documentation

7.1 /Volumes/Untitled/PPL PROJECT/que_2/Couple.cpp File Reference

```
#include <string>
#include "Couple.h"
#include <cmath>
```

7.2 /Volumes/Untitled/PPL PROJECT/que_2/Couple.h File Reference

```
#include <string>
```

Classes

- class couple::Couple

Namespaces

- couple

7.3 /Volumes/Untitled/PPL PROJECT/que_2/Gift.cpp File Reference

```
#include <string>
#include "Gift.h"
```

7.4 /Volumes/Untitled/PPL PROJECT/que_2/Gift.h File Reference

```
#include <string>
```

Classes

- class gift::Gift

Namespaces

- gift

7.5 /Volumes/Untitled/PPL PROJECT/que_2/Helper_couple.cpp File Reference

```
#include "Helper_couple.h"
#include <algorithm>
#include <fstream>
#include <iostream>
#include <ctime>
#include <cmath>
```

Functions

- bool gift_cmp (const gift::Gift &g1, const gift::Gift &g2)
- void give_gifts (std::vector< couple::Couple > &c)

7.5.1 Function Documentation

7.5.1.1 gift_cmp()

```
bool gift_cmp (
            const gift::Gift & g1,
            const gift::Gift & g2 )
```

Definition at line 7 of file Helper_couple.cpp.

7.5.1.2 give_gifts()

```
void give_gifts (
            std::vector< couple::Couple > & c )
```

Definition at line 11 of file Helper_couple.cpp.

7.6 /Volumes/Untitled/PPL PROJECT/que_2/Helper_couple.h File Reference

```
#include "Gift.h"
#include "Couple.h"
#include <vector>
```

Classes

- class Helper_couple

Functions

- void give_gifts (std::vector< couple::Couple > &c)

7.6.1 Function Documentation

7.6.1.1 give_gifts()

```
void give_gifts (
            std::vector< couple::Couple > & c )
```

Definition at line 11 of file Helper_couple.cpp.

7.7 /Volumes/Untitled/PPL PROJECT/que_2/insert_data.cpp File Reference

```
#include <iostream>
#include <fstream>
#include <stdlib.h>
#include <string>
#include <ctime>
```

Functions

- int main ()

7.7.1 Function Documentation

7.7.1.1 main()

```
int main ( )
```

Definition at line 12 of file insert_data.cpp.

7.8 /Volumes/Untitled/PPL PROJECT/que_2/insert_gift_util.cpp File Reference

```
#include <iostream>
#include <fstream>
#include <stdlib.h>
#include <string>
#include <ctime>
```

Functions

- int main ()

7.8.1 Function Documentation

7.8.1.1 main()

```
int main ( )
```

Definition at line 11 of file insert_gift_util.cpp.

7.9 /Volumes/Untitled/PPL PROJECT/que_2/q2_main.cpp File Reference

```
#include "Helper_couple.h"
#include "Gift.h"
#include "Couple.h"
#include <iostream>
#include <algorithm>
```

Functions

- bool happy_cmp (const couple::Couple &c1, const couple::Couple &c2)
- bool compat_cmp (const couple::Couple &c1, const couple::Couple &c2)
- int main ()

7.9.1 Function Documentation

7.9.1.1 compat_cmp()

```
bool compat_cmp (
            const couple::Couple & c1,
            const couple::Couple & c2 )
```

Definition at line 9 of file q2_main.cpp.

7.9.1.2 happy_cmp()

```
bool happy_cmp (
            const couple::Couple & c1,
            const couple::Couple & c2 )
```

Definition at line 7 of file q2_main.cpp.

7.9.1.3 main()

```
int main ( )
```

Definition at line 10 of file q2_main.cpp.

7.10 /Volumes/Untitled/PPL PROJECT/que_2/README.md File Reference